

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) An isolated nucleic acid encoding an insect cell ~~membrane~~ serotonin transporter polypeptide; ~~wherein the insect cell membrane cell transporter is selected from the group consisting of: an acetylcholine transporter, a serotonin transporter, a proline transporter, a glutamate transporter, a neurotransmitter transporter encoded by the inebriated gene, an orphan transporter, and a LAT transporter;~~ wherein the polypeptide has greater than about 70% 95% amino acid sequence identity to a polypeptide comprising a ~~sequence selected from the group consisting of:~~ SEQ ID NOS: 2, 4, ~~6, 8, 10, 12, and 16.~~

2. (Currently Amended) The isolated nucleic acid of the claim 1, wherein the nucleic acid encodes a polypeptide comprising a ~~sequence selected from the group consisting of:~~ SEQ ID NOS: 2, 4, ~~6, 8, 10, 12, and 16.~~

3. (Currently Amended) ~~The isolated nucleic acid of claim 1~~ An isolated nucleic acid encoding an insect cell serotonin transporter polypeptide, wherein the nucleic acid comprises a ~~nucleotide sequence selected from the group consisting of:~~ SEQ ID NOS: 1, 3, ~~5, 7, 9, 11, and 15.~~

4. (Currently Amended) An isolated insect cell ~~membrane~~ serotonin transporter polypeptide, the polypeptide having greater than about 70% 95% amino acid sequence identity to a polypeptide comprising a ~~sequence selected from the group consisting of:~~ SEQ ID NO: 2, 4, ~~6, 8, 10, 12, and 16.~~

5. (Currently Amended) An isolated insect cell ~~membrane~~ serotonin transporter

polypeptide of ~~claim 4~~, wherein the polypeptide comprises ~~an amino acid sequence selected from the group consisting of~~: SEQ ID NO: 2, 4, ~~6, 8, 10, 12, and 16~~.

11. (Currently Amended) A cell comprising a recombinant nucleic acid encoding an insect cell ~~membrane~~ serotonin transporter polypeptide, the polypeptide having greater than 70% 95% amino acid sequence identity to a polypeptide comprising ~~a sequence selected from the group consisting of~~: SEQ ID NOS: 2, 4, ~~6, 8, 10, 12, and 16~~.

12. (Currently Amended) The cell of claim 11, wherein the cell is ~~selected from the group consisting of~~: ~~an insect cell~~, a mammalian CV-1 cell, ~~and a yeast cell~~.